

Amendments to the Claims

Please cancel claims 1- 6 and 8 - 31. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1 - 31. (Cancelled)

32. (New) A recombinant vector comprising an isolated nucleotide sequence encoding a single snRNA, wherein said nucleotide sequence has been modified to contain one or more restriction sites, such that digestion with at least one restriction enzyme excises a restriction fragment and forms insertion sites in said nucleotide sequence.
33. (New) The vector of Claim 32, wherein the snRNA is selected from the group of snRNAs with splicing functions.
34. (New) The vector of Claim 33, wherein the snRNA is U1 snRNA or U6 snRNA.
35. (New) The vector of Claim 34, wherein the snRNA is U1 and wherein said nucleotide sequence has been modified within the first 11 nucleotides of the coding region.
36. (New) The vector of Claim 32 wherein said restriction fragment which is excised includes the restriction sites.
37. (New) The vector of Claim 32 wherein there are two restriction sites which are identical, and wherein digestion with only one restriction enzyme excises a restriction fragment and forms insertion sites in said nucleotide sequence.
38. (New) The vector of Claim 32 wherein the restriction enzyme is a dual cleavage restriction enzyme.

39. (New) The vector of Claim 38 wherein the restriction enzyme is BaeI.
40. (New) The vector of Claim 39, wherein the insertion sites comprise the complements of DNA sequences of SEQ ID NO: 2 and SEQ ID NO: 3.
41. (New) The vector of Claim 32 wherein digestion with at least one restriction enzyme excises a double stranded restriction fragment with single stranded overhangs at each end, and wherein the insertion sites comprise single stranded overhangs which are complementary to the single stranded overhangs of the restriction fragment.
42. (New) A recombinant vector comprising an isolated nucleotide sequence encoding an snRNA wherein said nucleotide sequence comprises an insertion cassette between two insertion sites, and wherein said insertion cassette comprises a modification fragment comprising a nucleotide sequence complementary to a predetermined target.
43. (New) The vector of Claim 42 wherein the insertion cassette is contained between nucleotides 1 and 12 of the coding region of said nucleotide sequence.
44. (New) The vector of Claim 42, wherein the snRNA is selected from the group of snRNAs with splicing functions.
45. (New) The vector of Claim 44, wherein the snRNA is U1 snRNA or U6 snRNA.
46. (New) The vector of Claim 45, wherein the insertion cassette comprises a modification fragment of about 30 base pairs of DNA.
47. (New) The vector of Claim 42 wherein the insertion sites in said nucleotide sequence are formed by excision of a restriction fragment after digestion with at least one restriction enzyme.
48. (New) The vector of Claim 42 wherein the modification fragment is double stranded.

49. (New) The vector of Claim 47 wherein the restriction enzyme is BaeI.
50. (New) The vector of Claim 49, wherein the insertion sites comprise the complements of DNA sequences of SEQ ID NO: 2 and SEQ ID NO: 3.
51. (New) The vector of Claim 42 wherein each insertion site comprises a single stranded overhang and wherein each strand of the modification fragment comprises a nucleotide sequence which is complementary to one of the single stranded overhangs of the insertion sites.